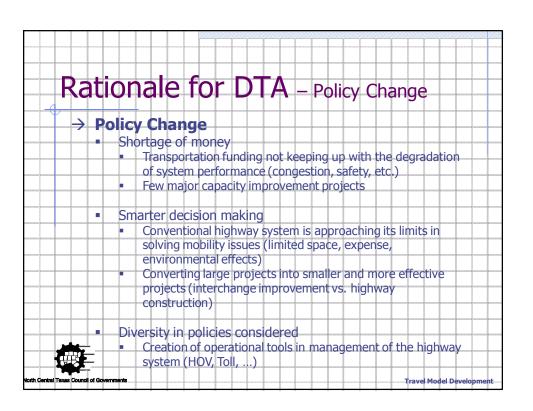
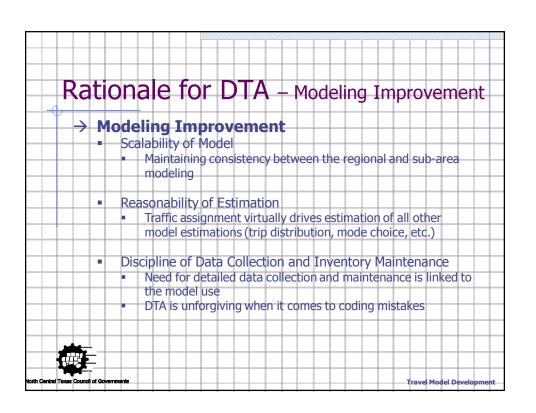
	NCTCOG's
	Dynamic Traffic Assignment
	Feasibility Study
	Travel Model Development
	and
	Data Management
	Presented to
	TMIP
	October 23, 2009
th Central Texas Council of Gover	merts

(Content	
-	Rationale for DTA	
	Model Improvement Approach	
-	DTA Requirements	
_	Partnership with the University of Texas	
North Central Texas	Sound of Governments Trav	el Model Development

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\rightarrow A	nalytical Need
	High Congestion Static UE incapable of modeling queues and spillovers
-	Bottlenecks Development of effective projects Benefit-cost analysis
	HOV, Toll, and Managed Lanes modeling
-	ITS and Control Devices modeling



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	TCOG's Stepwise Approach
1.	Data Collection and Maintenance
	Creation of a long range data collection plan
	Creation of an enterprise level database system for storage, maintenance, and sharing the data
	3. Organization of existing data
۷.	Roadway Coding Improvement
	Completely rectified network
	Development of rigid quality control tools
	3. Development of a highly controlled coding environment
3	Modeling Application
	Creation of control environment for application of the mode
	Development of archiving system
	3. Creation of standard reports
	4. Convenience in using the model
4.	Development of Advanced Model
	Measurement and reduction of the noise in the static UE
	 2. Consideration of hardware improvement (reasonable run times) 3. Investigation into application of DTA

	TA Requirements
-	Ability to model queues, spillovers, and control devices
-	Modeling with 15-minute interval resolution
-	Stable and consistent results (proper response to relevant and irrelevant changes)
-	Controlled and understandable noise which can be decreased using more resources
-	Consistently scaleable in size of the modeling area (from large to smaller)
	Affordable hardware and run time

	artnership With UT
-	NCTCOG University Partnership Program (UPP) is designed to create a direct communication line between MPO staff and University researchers to the benefit of both sides in research and understanding of the MPO needs.
	UPP enables us to test our possible future improvements in a research environment before committing our resources to unknown risks.
-	In DTA partnership, we would like to investigate whether or no a DTA that meets our requirements can be applied in our large-scale modeling area.
-	The status of the current work of Dr. Waller's team is that they have been able to run the DTA on the regional model for the AM time period.

